

Abstract of the Disclosure

In order to realize a stable decrease in NO_x, a gas turbine combustor is supplied which can reduce combustion vibration. A combustor (3) is provided with a first box body (30), which is installed outside an object body (20) such as a combustor basket (6), a transition piece (7) or a bypass duct (11) so as to form a first internal space (31) having a predetermined capacity; and a first throat (32) having a predetermined length which has one end (32a) open to a side wall (20a) of the object body (20) and has the other end (32b) open to a first internal space (31); wherein, a first resistive element (33) having a multiple number of through-holes is inserted and engaged to one end (32a). Fluid particles serving as vibration elements of combustion vibration caused in a combustion region are effectively trapped by the first resistive element (33) and at the same time resonate with the air of the first internal space (31) being connected through the first throat (32) and vibrate in the neighborhood of the first resistive element (33), thereby damping vibration amplitude thereof.